

AMENDED PARAGRAPH/SECTION OF SPECIFICATION PAGE 8

reactor used for the methanol synthesis step in the present invention.

Fig. 1A is a cross-sectional view of Figure 1 taken along the lines A-A;

Fig. 2 is a drawing showing the process flow of the methanol production plant according to the present invention; and

Fig. 3 is a drawing showing the temperature distribution of the catalyst layer in the reactor.

The reference numerals shown in these figures are defined as follows: 1, Reactor; 2, Casing; 3, Reaction tube; 4a, 4b, Tube plates; 5, Plug; 6, 6a, Inner tubes; 7, Central tube; 8, Circular duct; 9, Shielding plate; 10, Unreacted gas; 11, inlet of catalyst layer; 12, Unreacted gas-feeding room; 13, Circular catalyst layer; 14, Unreacted feed gas nozzle; 15, Outlet of catalyst layer; 16, Lower collecting room; 17, Outlet nozzle of reactor; 18, Resulting gas; 19, Boiling liquid; 20, Inlet nozzle; 21, Outlet nozzle; 22, 23, Distillation columns; M, Synthetic gas (raw material gas); R, Recycle gas. The gas flow into nozzle 21 is identified as "C" in Figure 1.